

220152US-0 PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: :
PHILIPPE GAUCHER : ATTN: APPLICATION DIVISION
SERIAL NO: NEW U.S. PCT APPLN :
(BASED ON PCT/FR01/02189)
FILED: HEREWITH :
FOR: CROSSLINKED RESIN AND PROCESS
FOR THE MANUFACTURE OF
OXIDES USING THIS CROSSLINKED
RESIN

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Prior to examination on the merits, please amend the above-identified application as follows.

IN THE CLAIMS

Please amend the claims as shown in the marked-up copy following this amendment to read as follows.

6. (Amended) The crosslinked resin as claimed in claim 1, characterized in that the acid is acetic acid.
7. (Amended) The crosslinked resin as claimed in claim 1, characterized in that the acid is propanoic acid.

10069951.030702

8. (Amended) The crosslinked resin as claimed in claim 1, characterized in that the acid is trifluoroacetic acid.

9. (Amended) The crosslinked resin as claimed in claim 1, characterized in that it additionally comprises at least one photoinitiating agent.

12. (Amended) The process for the manufacture of ceramic or of glass as claimed in claim 10, characterized in that the simple metal alkoxides are zirconium alkoxide or titanium alkoxide.

13. (Amended) The process for the manufacture of ceramic or of glass as claimed in claim 10, characterized in that it comprises a stage of preparation of complex metal alkoxides from lead carboxylate, zirconium alkoxide and titanium alkoxide.

14. (Amended) The process for the manufacture of ceramic or glass patterns at the surface of a substrate as claimed in claim 10, characterized in that:

- exposure to radiation is carried out through a mask, so as to define radiation-exposed patterns and non-radiation-exposed patterns;
- it comprises the dissolution of the non-radiation-exposed patterns in a solvent.

16. (Amended) The process for the manufacture of a ceramic or of a glass as claimed in claim 10, characterized in that the substrate is glass.

17. (Amended) The process for the manufacture of a ceramic or of a glass as claimed in claim 10, characterized in that the substrate is silicon.

18. (Amended) A capacitor, characterized in that it is obtained from the process for the manufacture of a ceramic or of a glass as claimed in claim 10.

19. (Amended) A piezoelectric transducer, characterized in that it is obtained from the process for the manufacture of a ceramic or of a glass as claimed in claim 10.

20. (Amended) A ferroelectric memory, characterized in that it is obtained from the process for the manufacture of a ceramic or of a glass as claimed in claim 10.

REMARKS

Claims 1-20 are active in the present application. Claims 6-9, 12-14 and 16-20 have been amended to remove multiple dependencies. No new matter is added. An action on the merits and allowance of claims is solicited.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Norman F. Oblon
Attorney of Record
Registration No. 24,618

Stefan U. Koschmieder
Registration No. 50,238



22850

Tel.: (703) 413-3000
Fax: (703) 413-2220

NFO:SUKOS\js

I:\atty\SUKOS\220152US-PR.wpd

Marked-Up Copy

Serial No: _____

Amendment Filed on: _____

3-7-2002

IN THE CLAIMS

--6. (Amended) The crosslinked resin as claimed in [one of claims 1 to 5] claim 1, characterized in that the acid is acetic acid.

7. (Amended) The crosslinked resin as claimed in [one of claims 1 to 5] claim 1, characterized in that the acid is propanoic acid.

8. (Amended) The crosslinked resin as claimed in [one of claims 1 to 5] claim 1, characterized in that the acid is trifluoroacetic acid.

9. (Amended) The crosslinked resin as claimed in [one of claims 1 to 8] claim 1, characterized in that it additionally comprises at least one photoinitiating agent.

12. (Amended) The process for the manufacture of ceramic or of glass as claimed in [either of claims 10 and 11] claim 10, characterized in that the simple metal alkoxides are zirconium alkoxide or titanium alkoxide.

13. (Amended) The process for the manufacture of ceramic or of glass as claimed in [either of claims 10 and 11] claim 10, characterized in that it comprises a stage of preparation of complex metal alkoxides from lead carboxylate, zirconium alkoxide and titanium alkoxide.

14. (Amended) The process for the manufacture of ceramic or glass patterns at the surface of a substrate as claimed in [one of claims 10 to 13] claim 10, characterized in that:

- exposure to radiation is carried out through a mask, so as to define radiation-exposed patterns and non-radiation-exposed patterns;

- it comprises the dissolution of the non-radiation-exposed patterns in a solvent.

16. (Amended) The process for the manufacture of a ceramic or of a glass as claimed in [one of claims 10 to 15] claim 10, characterized in that the substrate is glass.

17. (Amended) The process for the manufacture of a ceramic or of a glass as claimed in [one of claims 10 to 15] claim 10, characterized in that the substrate is silicon.

18. (Amended) A capacitor, characterized in that it is obtained from the process for the manufacture of a ceramic or of a glass as claimed in [one of claims 10 to 15] claim 10.

19. (Amended) A piezoelectric transducer, characterized in that it is obtained from the process for the manufacture of a ceramic or of a glass as claimed in [one of claims 10 to 15] claim 10.

20. (Amended) A ferroelectric memory, characterized in that it is obtained from the process for the manufacture of a ceramic or of a glass as claimed in [one of claims 10 to 15] claim 10.--

DOCKET NO.: 220152 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Philippe GAUCHER

SERIAL NO.: NEW U.S. PCT APPLICATION

FILED: HEREWITH

INTERNATIONAL APPLICATION NO.: PCT/FR01/02189

INTERNATIONAL FILING DATE: July 6, 2001

FOR: CROSSLINKED RESIN AND PROCESS FOR THE MANUFACTURE OF OXIDES USING
THIS CROSSLINKED RESIN

REQUEST FOR PRIORITY UNDER 35 U.S.C. 119
AND THE INTERNATIONAL CONVENTION

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In the matter of the above-identified application for patent, notice is hereby given that
the applicant claims as priority:

COUNTRY

France

APPLICATION NO


00 08920

DAY/MONTH/YEAR

07 July 2000

Certified copies of the corresponding Convention application(s) were submitted to the
International Bureau in PCT Application No. PCT/FR01/02189. Receipt of the certified
copy(s) by the International Bureau in a timely manner under PCT Rule 17.1(a) has been
acknowledged as evidenced by the attached PCT/IB/304.

Respectfully submitted,
OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Norman F. Oblon
Attorney of Record
Registration No. 24,618
Surinder Sachar
Registration No. 34,423



22850

(703) 413-3000
Fax No. (703) 413-2220
(OSMMN 1/97)

10069951.030702